

SEQUENCE LISTING

<110> Moyer, James W.
Parks, Elizabeth

<120> IDENTIFICATION OF POINSETTIA CULTIVARS

<130> 5051.445

<150> US 60/220,854

<151> 2000-07-26

<160> 54

<170> PatentIn version 3.1

<210> 1

<211> 372

<212> DNA

<213> Euphorbia pulcherrima

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<221> misc_feature

<222> (24)..(24)

<223> "n" represents any nucleotide.

<220>

<221> misc_feature

<222> (195)..(195)

<223> "n" represents any nucleotide.

<400> 1

aaacttagac tttataccat aatnttttag ttgctgcttg atctatagca gttgagccac

60

<221> misc_feature

<222> (160)..(160)

<223> "n" represents any nucleotide.

<400> 2
gtagaaaaag caaatttcag tgcagggtgt ggatntggtg ccagntanta ttgcaaagt 60
tagagctttg ttgcaggatt tgactgagag gaattgtgtc atggagagaa gttcgagtgc 120
gagcccgatt gtgtttagg agaagaaatt gganagaagn cgttgggggc aagtatggag 180
ttgagaatcc cacatcta 198

<210> 3

<211> 182

<212> DNA

<213> Euphorbia pulcherrima

<400> 3
agttagaaaa gcaaatttca gtgcagggtg tactattgca aatgtagag ctttggtgca 60
ggatttgaca gagaggaatt gtatcatgga gagaagttcg agtgcgagcc cgattgtgtt 120
gtaggagaag aaattggaag aagacgttg gggcaagtgt ggagttgaga atcccacatg 180
ta 182

<210> 4

<211> 161

<212> DNA

<213> Euphorbia pulcherrima

<400> 4
tgcttccaag gtgtttctcc ttttgataga gaaattttac caactatgga aaactgacat 60
gatttcagcc tctcttcata aagattttga ggaatctgaa ttgctttgta tctcccactt 120
gcgtcaatga tttgtgagtt cagggttgga gcagatatct a 161

<210> 5

<211> 103

<212> DNA

<213> Euphorbia pulcherrima

<400> 5
cgacgatggc aatgatgaca attcttgcct ggaaccagaa atgataattg atactcccta 60
tatagggaga atgttgaaaa ttagattttg aagttgttat tta 103

<210> 6

<211> 371

<212> DNA

<213> Euphorbia pulcherrima

<220>

<221> misc_feature

<222> (81)..(81)

<223> "n" represents any nucleotide.

<400> 6
ttccatggta cctttgttca gtaaaaaaat tacacaatta gctagttcga agaatacacg 60
tgcaaactaa ttttttaggtc ntgggtgcaa attattttgc aaaaataatt accaagctat 120
ctcttccaag tatatatattc tctagcatct cccatgcata agaactgttg gagtgtatat 180
gtatgagaaa gaaatgtata ataccaacct cttccatttg ctttgttcta ctgctttcca 240
agtgtcgggt ttaggtgtat tacaaggccc tatagtagcc tgcagtcatt catggaacta 300
acaaactcag tatctaagcc cggggtgaaa agatactcac aatctcacat ttccgatcaa 360
ctccccatat c 371

<210> 7

<211> 247

<212> DNA

<213> Euphorbia pulcherrima

<220>

<221> misc_feature

<222> (22)..(22)

<223> "n" represents any nucleotide.

<220>

<221> misc_feature
 <222> (151)..(151)
 <223> "n" represents any nucleotide.

<220>

<221> misc_feature
 <222> (175)..(175)
 <223> "n" represents any nucleotide.

<400> 7
 gaaaatatgt gctgaattta tncgtgtaaag tagtttcgat gcaaccactg tttagcttat 60
 acttaacttt ctgttcatca ccatcaatcc tcagcaaaac accctcattc ttcatactta 120
 gatgttggtc gaagaaatat ggggtaacag ngatttcttt gccctggacc ttggnntgaa 180
 gagcatcaaaa cttggcgtga acactaagaa tctcatagaa ctcccttgac taagtcagga 240
 tatgtgg 247

<210> 8
 <211> 221
 <212> DNA
 <213> Euphorbia pulcherrima

<400> 8
 agctcttcat tgcttcatca taggttatcg gtttatcatc ctctatgata tatagttccc 60
 tacatcagtg atgatgcaac catatctttt aggaccgtta tgaatatgac ctgatctttg 120
 cattgattgt gtttcaacag gttgttcatt ggatcaaacc ttcttgtgta tctagaatgg 180
 ggtcaactag ttgattatct gttttatatt cttgaagctc c 221

<210> 9
 <211> 176
 <212> DNA
 <213> Euphorbia pulcherrima

<400> 9
 tgcattccat ggttcaaaag ccgagtttct tcgcctcatc gagtttttat tcgcaaagtg 60
 gatggtttag acagggtttt gaccagcagc ctggagttgg gagattgttg gcctcatcag 120

aaattagttt tcatggagtt gggagatttg aaggtaattc aaggaagttt tctgca 176

<210> 10

<211> 73

<212> DNA

<213> Euphorbia pulcherrima

<220>

<221> misc_feature

<222> (54)..(54)

<223> "n" represents any nucleotide.

<400> 10
ccggataaaa gcactacaat caggtagatg actcgggtcg gatacgtagt gcantactga 60
gtcagactaa cga 73

<210> 11

<211> 75

<212> DNA

<213> Euphorbia pulcherrima

<400> 11
gtttatcttc aagtctaaca agaccagtt tticagattc ctttcctcaa tttctcgttc 60
agttataaaa gctaa 75

<210> 12

<211> 64

<212> DNA

<213> Euphorbia pulcherrima

<220>

<221> misc_feature

<222> (52)..(52)

<223> "n" represents any nucleotide.

<400> 12
gaatgcctat tacatcgga aacaaaaaaa caaagataaa tgctagagac antataatca 60
tccc 64

<210> 13

<211> 59

<212> DNA

<213> Euphorbia pulcherrima

<400> 13
gtctttctag ttttactgat ttctgttgta cttctattag atatatattg tatatctga 59

<210> 14

<211> 49

<212> DNA

<213> Euphorbia pulcherrima

<400> 14
ttgaaggcag gaaaatatat cctattctga aaggatttac aatctgcgg 49

<210> 15

<211> 216

<212> DNA

<213> Euphorbia pulcherrima

<400> 15
acttctctcc ccacacaatg tgtagtgcag ctagtgccga tgacagtga aagaccagaa 60
tcacatagag agcgatcgta tgaaaaggta ttgaattagg gatttgatga aagggtgaaga 120
tagaaagggga gttggtgtta gcgagttgtt tctcctgccc tcacaataat acttttatca 180
atttttcagt aacaatttgt ccatgtactt ttggac 216

<210> 16

<211> 120

<212> DNA

<213> Euphorbia pulcherrima

<400> 16

tgtgctcttg ttccttggat caaataagga aacatggcct taggtaagt tagtcatatc 60
 tttttggctc atgaacccta agtcccctat agtttgaaca aggttgtgta ggattggtat 120

<210> 17

<211> 120

<212> DNA

<213> Euphorbia pulcherrima

<400> 17
 agaaccta atcctaagtagaa tcttataaaa gaaatgaaaa ctttgagaga ttttttagt 60
 atgaaaatag aaaataaatc ataaagtaaa caagcacaaa taccagctgg atttttctaa 120

<210> 18

<211> 118

<212> DNA

<213> Euphorbia pulcherrima

<400> 18
 gaatgtgctc ttggtccttg ggatctaaat aaggaaacat ggccttggt tagtaataat 60
 actttttgct cataaccctg agtccgctat ggctgaacaa ggttgtgcag gatggtat 118

<210> 19

<211> 117

<212> DNA

<213> Euphorbia pulcherrima

<400> 19
 agaaccta tctaggtagc cttcttataa aagaaaatga aaactttgag agatattttt 60
 agtatgaaaa tagaaaataa aatcataagt aacagcacaa ttaccagctg gactctc 117

<210> 20

<211> 109

<212> DNA

<213> Euphorbia pulcherrima

<400> 20
 gaatgtgctc ttggttcctt agggatctaa ataaggaaac atggcttggt atagtaataa 60

<222> (333)..(333)

<223> "n" represents any nucleotide.

<400> 24
ctccaaggct tcattgatgc agattatggt agagatactc ttgagagaaa gagtacatca 60
gaggttgtca ctcttaggga gattgcttag tatcttgga cagcaagaag caaacttcag 120
ttgctttatc tactatagaa gtagaatata tggcagctag aagttgtgta gctcaacttc 180
tttgatcaa gcaacaacta gaagattatg gagtctaate cgggtgtgtg gatgtaattg 240
gtgattacaa aagtgccatt gatgtgtcaa acaatccagt attccatagg aggataaaac 300
atgtcaacat aaggcatcgt gaagagaaga aanttg 336

<210> 25

<211> 232

<212> DNA

<213> Euphorbia pulcherrima

<220>

<221> misc_feature

<222> (6)..(6)

<223> "n" represents any nucleotide.

<220>

<221> misc_feature

<222> (26)..(26)

<223> "n" represents any nucleotide.

<400> 25
cagganatga actttgattt caccancata gattttgaat ctgagtcctc aggaagcttt 60
ttcagttctt gagcacatgt tctgaaaaaa tatcaaatct ctacattggt ttcaagggtca 120
acaaatgacc ggtaaggctc gggttggtct agaccgggca catcaatttg gggacaaatt 180
tgaatccatt ttatcctact tttttgtatt ggcagtaagg attaggattc tc 232

<210> 26

<211> 167

<212> DNA

<213> Euphorbia pulcherrima

<220>

<221> misc_feature

<222> (73)..(73)

<223> "n" represents any nucleotide.

<400> 26

ctctcctata ttttaggggt tagctttgta tcataagctc ttctgctctc tacccttcta 60

aaccaccca tgntatatat ggtattcatc actcgaatat ttatgtaagt catccatctc 120

attcaggggt tgattcgggc tgatcatctt ccggtttctc tagctaa 167

<210> 27

<211> 102

<212> DNA

<213> Euphorbia pulcherrima

<400> 27

tttgaggag tactgtccat gtaaatttga gacttcgcac tatcattgca agcaatagca 60

atagaagaaa catcattttg cagcttacta atacaccac tc 102

<210> 28

<211> 308

<212> DNA

<213> Euphorbia pulcherrima

<400> 28

gcctagaaaag gttttctagt caacatactc acgtagctca cttttaccct aacttttgcc 60

tagaacgtcc tttttgaatt ttcagtctag cgggctatct tgcaccctaa cttttgcctg 120

aatgggttgt agaataccaa atagcgggat atgccctaag tttgcctaag cagtagagga 180

ccactcatcg ggtgatttat tttgattatt ttttgtgtgc cgcttttctg gatttgattc 240

ttttagatta gatatgataa tgcttcaatc gatcctgatt gatagggttt gtgaattggg 300

acgcagcc 308

<210> 29

<211> 137

<212> DNA

<213> Euphorbia pulcherrima

<400> 29

aagaccaagt caggagcata cctaagaaga aggaatagct gacctagccg atcctctggt 60

acctcaacta tggatggacc cccgtgtacc tctcagtcct cctcctcgtc atcatatcat 120

catcctcggt gttgctc 137

<210> 30

<211> 135

<212> DNA

<213> Euphorbia pulcherrima

<400> 30

ttatcataat caatgtcaat aaaaaaaaaa aggcaataaa taaaagataa ataattctga 60

tagactaaaa agagcaaggc tgatgcaaaa gtcagaataa gtctgctgga ttgaaatcga 120

aaggatatcta ggcaa 135

<210> 31

<211> 139

<212> DNA

<213> Euphorbia pulcherrima

<220>

<221> misc_feature

<222> (128)..(128)

<223> "n" represents any nucleotide.

<400> 31

ggccctttct cagccatgat atctaaatat acgagtcttg tgtgtacgcc attgcatctc 60

tagcccttct ccagggggcg ttctcatctt gtccatgcca taatacaatt tcatatattc 120

tctctccnag taagcaacc 139

<210> 32

<211> 281
 <212> DNA
 <213> Euphorbia pulcherrima

<400> 32
 aacctcatca atcaggatca gatgaagcat tatcatatct aatcgaaaag aatcaaattct 60
 agaaaaagcgg cacataaaaag tatataaaaa aatcacccga cgagtagtct tctactgctc 120
 aggcaaaaat taggggtgtat cctgttggtt ggtaattctgt aaaccattca ggaaaatggt 180
 aggggtgcaag aataacccgc tagactgaaa atctgaaaag gatgggtctag gcaaaattta 240
 gggtaaaagt gagctacaat agtgtgttgg ctgaaaact t 281

<210> 33
 <211> 211
 <212> DNA
 <213> Euphorbia pulcherrima

<400> 33
 ggattactga taatgttgac aatggcttga gggcagtatc ttgcaactcc ctcgcaaagg 60
 gttttcacta ttccggcatt tatgttgaat aaatcgtccc tagtcattcc tggcttccta 120
 ggaaccccag caggaattat cacaagatcc attcctgtaa gagcatcgtc tagttgctgc 180
 tggcccaaga aaccacgcac ctgaaaatca t 211

<210> 34
 <211> 320
 <212> DNA
 <213> Euphorbia pulcherrima

<220>
 <221> misc_feature
 <222> (127)..(127)
 <223> "n" represents any nucleotide.

<220>
 <221> misc_feature
 <222> (136)..(136)

<223> "n" represents any nucleotide.

<220>

<221> misc_feature

<222> (142)..(142)

<223> "n" represents any nucleotide.

<220>

<221> misc_feature

<222> (148)..(148)

<223> "n" represents any nucleotide.

<220>

<221> misc_feature

<222> (192)..(192)

<223> "n" represents any nucleotide.

<220>

<221> misc_feature

<222> (213)..(213)

<223> "n" represents any nucleotide.

<400> 34
ttagctcgat ctccatgata acaaaactag ttatcacacc caccatttac attgttggtta 60
tgcaacaaag tcaactgtac tagagattct cgtcccgaag tgccctcaag atgggacgt 120
tttcttnatc tatgtngtag tngtcgtngt cgtcatcatc caggatcatcc agtattgatt 180
ggttgatcct tntgcgagac tttcttctat gcnttcttgg gctccaaacg aggttcagct 240
tgctgtactc ccataacacc cactttgaac ctgcagagta gcataacgaa caagaaaatg 300
aatgatagta gaataaattt 320

<210> 35

<211> 272

<212> DNA

<213> Euphorbia pulcherrima

<400> 35
tatggatattt cttttctggg tgtaattgat ttgcaacttg agtcaaacag gttctatcaa 60
ctgatttttc tagttttcgg cgcttactgc aaccctggaa aggatgttca ctgttttttc 120
cttcgttttc caggtcagca atacgacgag taatttcctc ggtatcatat atggattcca 180
gcttgtaatc ttttatgcat tgaaatacgg ctttacgagc agctagttct ctctccctgg 240
ccttctcctg cagatgaaat caggagttat at 272

<210> 36

<211> 195

<212> DNA

<213> Euphorbia pulcherrima

<400> 36
cagattattt gactataatt agtttggctt ctatggttgc tgcactaaat gatcatcgaa 60
acagccaatc ggttcatggg tttgtcatga gaaaaggctg gttcatggaa tatattgtca 120
ttgggaatgc aactgtggac atgtatgcta aaattggagc cacagatacg gcccgtcag 180
tatttgaaag cctac 195

<210> 37

<211> 171

<212> DNA

<213> Euphorbia pulcherrima

<400> 37
tttcaaaagt tgaaaagaat atgtcataag cttacacta gtaaattggaa ctatagtccg 60
tgccccctac atcaaaagat caatgataaa gaagaacaaa acactccaaa gagcaattct 120
tctcaaaagg tgctgagctg gaatcccatt ctaatcgtgg catccctccc c 171

<210> 38

<211> 120

<212> DNA

<213> Euphorbia pulcherrima

<400> 38

aaatgtagca aagaacatta tcaacaaatg ccccaaaaaa caagtgaaaa tataatcacc 60
actgaagcaa aaaaagtaag taaaaacaga agaaaagaca actaaatgta gattattaca 120

<210> 39

<211> 88

<212> DNA

<213> Euphorbia pulcherrima

<400> 39
aacttttttc tttgtataat tatctcatat tttttgtgaa tattcttggt tgaatagaac 60
acactttata tatgaaaccc actttatc 88

<210> 40

<211> 67

<212> DNA

<213> Euphorbia pulcherrima

<400> 40
atccttttca acaaggacat cgatgaaaag tgatttataa atgtggatat gtaaacttag 60
cttagtg 67

<210> 41

<211> 223

<212> DNA

<213> Euphorbia pulcherrima

<400> 41
ccaggagtaa aatagccatt atgaaagtac cattgaacca tattgctaac atccttgccg 60
accagggtccc aaaagtgttg ataaaaaata ccagtaaagc cgtcaggacc cagcgacta 120
tcacccttca tcgagaagac tctatttcga atttcatcaa aagaaggctt cctaataaac 180
tcatcattgt cgctgcccgt caccgatta ggaactgtct gcc 223

<210> 42

<211> 165

<212> DNA

<213> Euphorbia pulcherrima

<400> 42
ctaactggat gcaagaaatg agcaggcacc gatgaactag caaataaagg tggcagcatc 60
agaaccacca tcgtaaccac cgttagaatc gccgcccgat gaaagcccct gcattctttt 120
caaatacaat ctatacttct tgcacatga accctacgtt ttctc 165

<210> 43
<211> 106
<212> DNA
<213> Euphorbia pulcherrima

<400> 43
actaatccca tattagatgg gaattggatc gcttgacatg agagatttca aatgaacttt 60
atttccatcc ctagagccga gttcataaaa tctctcctaa acccat 106

<210> 44
<211> 67
<212> DNA
<213> Euphorbia pulcherrima

<220>
<221> misc_feature
<222> (51)..(51)
<223> "n" represents any nucleotide.

<400> 44
tgcaccattt gcattttcac acaaccattt ataataatat tcatcccata ngtttgaggg 60
ttttcgg 67

<210> 45
<211> 50
<212> DNA
<213> Euphorbia pulcherrima

<220>
<221> misc_feature

<222> (23)..(23)

<223> "n" represents any nucleotide.

<220>

<221> misc_feature

<222> (47)..(47)

<223> "n" represents any nucleotide.

<400> 45

gttcgtatat gtaatatatc ctngtaaagt ttaattacag aaacatngca

50

<210> 46

<211> 64

<212> DNA

<213> Euphorbia pulcherrima

<400> 46

cgtaccagcg gagacgatgg cctgaaattt gagcaccttc cgttgcatca gagtttctca

60

gtta

64

<210> 47

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Primer.

<400> 47

gactgcgtac caattcaag

19

<210> 48

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide Primer.

<400> 48

gactgcgtac caattcaca

19

<210> 49

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide Primer.

<400> 49

gactgcgtac caattcagc

19

<210> 50

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide Primer.

<400> 50

gatgagtcct gagtaacac

19

<210> 51

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide Primer.

<400> 51

gatgagtcct gagtaacta

19

<210> 52

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Primer.

<400> 52

gatgagtcct gagtaactc

19

<210> 53

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Primer.

<400> 53

gatgagtcct gagtaactg

19

<210> 54

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Primer.

<400> 54

gatgagtcct gagtaactt

19